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TEST REPORT OF PRECAST COVER SLAB

Format No: CP/TF/01

Lab ID	:	**CP-2017-12-19-04**
Customer	:	Assistant Executive Engineer, T.Dasarahalli Sub Divosion, BBMP, Bangalore. **Date: 24-12-17**
Address	:	T.Dasarahalli Sub Divosion, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains at 3rd main road & 9th cross Manjunatha Nagara in ward No.14 Bagalagunte.
Agency	:	Technical Manager West, KRIDL, Project Implementation Unit, No.280, 59th Cross, 17th C main road, 3rd Y Block, Rajajinagar, Bangalore-560 010.
Customer's Reference	:	BBMP/EE/DD/WO/77/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	19-12-17
Sample ID No	:	2017-12-19-04 /06
Sample Type /Size	:	Precast Cover Slab
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete
Date of test	:	20/12/2017

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	75.49	100.51	1.385	4475	75.8	16.9	15.8	19.7
2	Cover Slab-2	75.51	100.52	1.348	4477	81.3	18.2	16.9	21.1
3	Cover Slab-3	75.50	100.49	1.372	4476	79.4	17.7	16.5	20.6

Note:

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TEST REPORT OF CEMENT CONCRETE CUBES

Format No: CP/TF/01

Lab ID	:	**CP-2018-01-01-09**
Customer	:	Assistant Executive Engineer, T.Dasarahalli Sub Divosion, BBMP, Bangalore. **Date: 06/01/2018**
Address	:	T.Dasarahalli Sub Divosion, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains at 3rd main road & 9th cross Manjunatha Nagara in ward No.14 Bagalagunte.
Agency	:	Technical Manager West, KRIDL, Project Implementation Unit, No.280, 59th Cross, 17th C main road, 3rd Y Block, Rajajinagar, Bangalore-560 010.
Customer's Reference	:	BBMP/EE/DD/WO/77/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	01-01-18
Sample ID No	:	2018-01-01-09 /01
Customer ID	:	M20 Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	06/01/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Concrete	M20	30/12/2017	06/01/2018	151.00 X 149.29 X 151.09	22543	8.196	378.7	16.8	17.2
2	M20 Concrete	M20	30/12/2017	06/01/2018	150.29 X 150.83 X 150.22	22668	8.172	394.4	17.4	
3	M20 Concrete	M20	30/12/2017	06/01/2018	150.27 X 150.28 X 150.27	22583	8.175	390.7	17.3	

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TEST REPORT OF CEMENT CONCRETE CUBES

Format No: CP/TF/01

Date: 27/01/2018

Lab ID	:	CP-2018-01-01-09
Customer	:	Assistant Executive Engineer, T.Dasarahalli Sub Divosion, BBMP, Bangalore.
Address	:	T.Dasarahalli Sub Divosion, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains at 3rd main road & 9th cross Manjunatha Nagara in ward No.14 Bagalagunte.
Agency	:	Technical Manager West, KRIDL, Project Implementation Unit, No.280, 59th Cross, 17th C main road, 3rd Y Block, Rajajinagar, Bangalore-560 010.
Customer's Reference	:	BBMP/EE/DD/WO/77/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	01-01-18
Sample ID No	:	2018-01-01-09 /02
Customer ID	:	M20 Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	27/01/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Concrete	M20	30/12/2017	27/01/2018	149.68 X 150.28 X 150.28	22494	8.118	501.6	22.3	21.9
2	M20 Concrete	M20	30/12/2017	27/01/2018	150.19 X 151.02 X 150.97	22682	8.169	501.3	22.1	
3	M20 Concrete	M20	30/12/2017	27/01/2018	150.22 X 149.27 X 150.98	22423	8.183	479.9	21.4	

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DETERMINATION OF FLAKINESS INDEX AND ELONGATION INDEX OF COARSE AGGREGATE(IS 2386 (Part 1) 1963 (RA 2007)

Lab ID	:	**CP-RW-2017-12-26-05** **Date: 28-12-17**
Customer	:	Assistant Executive Engineer, T.Dasarahalli Sub Divosion, BBMP, Bangalore.
Address	:	T.Dasarahalli Sub Divosion, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains at 3rd main road & 9th cross Manjunatha Nagara in ward No.14 Bagalagunte.
Agency	:	Technical Manager West, KRIDL, Project Implementation Unit, No.280, 59th Cross, 17th C main road, 3rd Y Block, Rajajinagar, Bangalore-560 010.
Customer Reference	:	BBMP/EE/DD/WO/77/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	26-12-17
Sample ID No	:	2017-12-26-05/01
Type of Mix	:	Coarse Aggregate for WMM (Wet Mix Macadam)
Date of test	:	26-12-17

Result:

Index	Percentage of Flakiness and Elongation Index	Secified limits as per MORTH specification table 400-12
Flakiness Index	11.8%	Combined Flakiness & Elongation Index for WMM is Maximum 35%
Elongation Index	12.1%	
Combined Flakiness and Elongation Index for WMM	23.9%	

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TEST REPORT OF AGGEGRATE IMPACT VALUE
IS: 2386 Part IV

Lab ID	:	**CP-RW-2017-12-26-05**
Customer	:	Assistant Executive Engineer, T.Dasarahalli Sub Divosion, BBMP, Bangalore. **Date: 28-12-17**
Address	:	T.Dasarahalli Sub Divosion, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains at 3rd main road & 9th cross Manjunatha Nagara in ward No.14 Bagalagunte.
Agency	:	Technical Manager West, KRIDL, Project Implementation Unit, No.280, 59th Cross, 17th C main road, 3rd Y Block, Rajajinagar, Bangalore-560 010.
Customer Reference	:	BBMP/EE/DD/WO/77/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	26-12-17
Sample ID No	:	2017-12-26-05/01
Type of Mix	:	Coarse Aggregate for WMM (Wet Mix Macadam)
Date of test	:	26-12-17

Sl.No	Particulars of observations	Index	TEST 1	TEST 2
1	Total weight of the surface dry sample sample (passing 12.5 mm and retained on 10mm sieve)	A	303.2	303.2
2	Weight of fraction passing 2.36mm sieve After giving 15 blows	B	62.8	64.1
3	weight of fraction retained 2.36mm sieve After giving 15 blows	C	240.1	238.6
4	Total weight of (B+C) is less than the initial weight (Weight A) by more than one gram the result shall be discarded and a fresh test made.	A-(B+C)	0.3	0.5
5	Aggregate impact value	(B/A)*100	20.7	21.1
6	Aggregate impact value (Mean of two tests)	Pecentage	20.9	

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PHYSICAL REQUIREMENTS FOR COARSE AGGREGATE FOR BITUMINOUS CONCRETE

Lab ID	:	**CP-RW-2018-01-16-11** **Date: 19-01-18**
Customer	:	Assistant Executive Engineer, T.Dasarahalli Sub Divosion, BBMP, Bangalore.
Address	:	T.Dasarahalli Sub Divosion, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains at 3rd main road & 9th cross Manjunatha Nagara in ward No.14 Bagalagunte.
Agency	:	Technical Manager West, KRIDL, Project Implementation Unit, No.280, 59th Cross, 17th C main road, 3rd Y Block, Rajajinagar, Bangalore-560 010.
Customer Reference	:	BBMP/EE/DD/WO/77/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	16-01-18
Sample ID No	:	2018-01-16-11/01
Type of Mix	:	BC (Bituminous Concrete)
Date of test	:	16-01-18

Table 500-16 : Physical Requirements fo Coarse Aggregate for Bituminous Concrete

Property	Test	Result	Specification	Method of Test
Partical Shape	Flakiness Index	12.4	Combined Flakiness & Elongation Index for BC is Maximum 35%	IS:2386 Part I
	Elongation Index	11.7		
Strength	Aggregate Impact Value	22.7	Maximum 24%	IS:2386 Part IV
Specific gravity	Specific gravity	2.68	Maximum 2.7	IS:2386 Part III
Water Absorption	Water Absorption	0.21	Maximum 2%	IS:2386 Part III

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PHYSICAL REQUIREMENTS FOR COARSE AGGREGATE FOR BITUMINOUS MACADAM

Lab ID	:	**CP-RW-2018-01-08-14**
Customer	:	Assistant Executive Engineer, T.Dasarahalli Sub Divosion, BBMP, Bangalore. **Date: 11-01-18**
Address	:	T.Dasarahalli Sub Divosion, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains at 3rd main road & 9th cross Manjunatha Nagara in ward No.14 Bagalagunte.
Agency	:	Technical Manager West, KRIDL, Project Implementation Unit, No.280, 59th Cross, 17th C main road, 3rd Y Block, Rajajinagar, Bangalore-560 010.
Customer Reference	:	BBMP/EE/DD/WO/77/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	08-01-18
Sample ID No	:	2018-01-08-14/01
Type of Mix	:	BM (Bituminous Macadam)
Date of test	:	08-01-18

Table 500-6 : Physical Requirements fo Coarse Aggregate for Bituminous Macadam

Property	Test	Result	Specification	Method of Test
Partical Shape	Flakiness Index	11.8	Combined Flakiness & Elongation Index for BM is Maximum 35%	IS:2386 Part I
	Elongation Index	10.4		
Strength	Aggregate Impact Value	22.7	Maximum 30%	IS:2386 Part IV
Specific gravity	Specific gravity	2.66	Maximum 2.7	IS:2386 Part III
Water Absorption	Water Absorption	0.19	Maximum 2%	IS:2386 Part III

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